Group Trial Log Sheet – Ball Launch Activity

Instructions: In your group, conduct horizontal launch trials using small balls. Record your measurements for each trial in the table below. Measure the vertical height of the drop, estimate the horizontal launch velocity, and record the horizontal distance traveled (range).

Data Table

Trial	Estimated Launch Velocity v_0 (m/s)	Drop Height h (m)	Fall Time t (s)	Horizontal Distance R (m)
1				
2				
3				
4				
5				
6				
7				
8				

Use your collected data to analyze the relationship between height, launch speed, and horizontal distance. You may graph your results and compare them with predictions from the model $R = v_0 \cdot \sqrt{(2h / g)}$.